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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,902	07/20/2001	Vik Arild	ARIL3001/REF	7002
7	590 04/01/200		EXAM	INER
Bacon & Thomas			HENDRICKSO	N, STUART L
625 Slaters Lai	ne		ART UNIT	PAPER NUMBER
Fourth Floor				
Alexandria, VA 22314-1176			1754	

DATE MAILED: 04/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		47	
Office Action Summary	Application No.	Applicant(s) WK	
	Examiner Usa	Group Art Unit	
-The MAILING DATE of this communication appe	ears on the cover shee	t beneath the correspondence address	
Period for Reply	3		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE	MONTH(S) FROM THE MAILING DATE	
 Extensions of time may be available under the provisions of 37 CFF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defaulting to reply within the set or extended period for reply will, by state 	reply within the statutory midult, expire SIX (6) MONTHS (nimum of thirty (30) days will be considered timely.	
Status			
Responsive to communication(s) filed on		· · · · · · · · · · · · · · · · · · ·	
This action is FINAL.			
☐ Since this application is in condition for allowance exce accordance with the practice under Ex parte Quayle, 19	pt for formal matters, pr 935 C.D. 1 1; 453 O.G. 2	osecution as to the merits is closed in 213.	
Disposition of Claims			
) Claim(s) $\zeta - 9$, $ \zeta $	is/are pending in the application.		
Of the above claim(s)	is/are withdrawn from consideration.		
☐ Claim(s)	is/are allowed.		
) Claim(s) 5-9, 16, 17		is/are rejected.	
☐ Claim(s)	· · · · · · · · · · · · · · · · · · ·	is/are objected to.	
□ Claim(s)		are subject to restriction or election	
Application Papers		requirement.	
☐ See the attached Notice of Draftsperson's Patent Draw	ing Review, PTO-948.		
☐ The proposed drawing correction, filed on	is. 🗆 approve	d 🗆 disapproved.	
☐ The drawing(s) filed on is/are objections.	ected to by the Examine	er.	
☐ The specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)-(d)			
✓ Acknowledgment is made of a claim for foreign priority ✓ All □ Some* □ None of the CERTIFIED copies o □ received.			
☐ received in Application No. (Series Code/Serial Num ☐ received in this national stage application from the In		T Rule 1 7.2(a)).	
*Certified copies not received:			
Attachment(s)	•		
☐ Information Disclosure Statement(s), PTO-1449, Paper	r No(s)	□ Interview Summary, PTO-413	
☐ Notice of Reference(s) Cited, PTO-892		☐ Notice of Informal Patent Application, PTO-15	
Notice of Draftenorson's Patent Drawing Review PTO-	948	□ Other	

Office Action Summary

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.___

Application/Control Number: 09/787,902

Art Unit: 1754

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 5, 8 and 18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Voet et al. article.

Voet teaches on pg. 135-136 decomposing methane to deposit carbon on particulate carbon. No mention is made of forming hydrogen, however this is deemed to occur since the hydrogen is not otherwise accounted for. The carbon substrate is 'micropulverized' to a size of 1800A which is deemed to be indistinguishable from 'dust'.

Claims 5-9, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over 118263.

The reference teaches in ex. 1 heating carbon particles by heat exchange from another process, then depositing carbon on them from the decomposition of a hydrocarbon. The product can be milled and recycled. The reference does not teach 'powder', however using a powder therein is an obvious expedient to provide a carbon source on which deposition can occur and which is fine enough to have a sufficient residence time for the reaction.

Claims 5-9, 16, 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- A) Claim 18 is unclear as to the meaning of 'down to'; as to whether this temperature (or a lower one) is required.
- B) Claim 5 is unclear and inconsistent in that no recycling is recited.

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C) In claim 9, 'fine' is subjective and unclear. Also, 'crushing' is incorrect- 'being crushed' appears correct.

Applicant's arguments filed 1/5/04 have been fully considered but they are not persuasive.

Claim 5 does not require a recycling step, so it does not distinguish over Voet.

Note that claim 6 which actually does require recycling is not rejected by Voet. '263 clearly teaches recycling; the manner of recycling argued is not claimed. Further the 'can'; language of the claims does not actually require that feature. 'trappable' does not require trapping. The claims are not commensurate is scope with what is argued.

Applicant is asked to supply their given (first) name, their family (last) nameclearly identified as such- and compare to the Oath, which appears to be incorrect.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

Stuart Hendrickson examiner Art Unit 1754